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A column generation approach for location-routing problems with pickup and delivery

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Highlights

- We propose an exact method for the location-routing problem with pickup and delivery.
- We implement a solution method based on column generation and Branch and Price.
- We solve the subproblem using an elementary shortest path procedure.
- We rely on a four-level branching scheme to account for various decisions.
- We analyze thoroughly the impact of fixed costs for depots and routes on solutions.

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